

# INTERNATIONAL SEARCH REPORT

International Application No  
FCT/EP 03/02465

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H02P7/74 H02P7/64 H02M5/44 H02M7/797		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 H02P H02M		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 42 35 223 C (LICENTIA GMBH) 11 November 1993 (1993-11-11) column 6, line 9-11; figures 1,2 column 5, line 52-56 column 6, line 11 column 3, line 37-45 column 4, line 62-65 column 6, line 1,2 column 3, line 55-61 column 6, line 24-28 column 3, line 31-54	1,21,24
X	column 3, line 31-54; figure 2	2-4
Y	column 4, line 58-65	5-19,27
X	column 7, line 28-34; figure 2	20
X	column 4, line 15-24; figure 2	22,23
X	column 6, line 62-68; figure 2	25,26
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 24 June 2003		Date of mailing of the international search report 03/07/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Kanelis, K

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 44 23 692 A (ABB PATENT GMBH) 11 January 1996 (1996-01-11) column 5, line 40-55; figure 1 column 2, line 26-35 -----	5-19,27
A	DE 198 49 763 C (SIEMENS AG) 2 March 2000 (2000-03-02) column 3, line 14-21; figure 2 -----	1-27
A	DE 101 52 487 A (VOITH TURBO KG) 28 February 2002 (2002-02-28) column 9, line 8-29; figures 1A,3 column 16, line 62 -column 17, line 61 -----	1-27

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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DE 4423692	A	11-01-1996	DE 4423692 A1	11-01-1996
			AT 156431 T	15-08-1997
			DE 59403662 D1	11-09-1997
			DK 691236 T3	02-03-1998
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